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Listing of the claims:

1-2. (Canceled)

3. (Currently amended) The system recited in claim 2, wherein the fluid is A packaging system for

electronic circuitry, wherein the electronic circuitry is disposed on a substrate, the packaging system

comprising in combination:

an inner housing surrounding the substrate:

an outer housing surrounding the inner housing and the substrate; and

a gap positioned between the inner and outer housings, the gap filled with air, whereby

when the packaging system experiences short term exposure to a high temperature, the

combination of the inner housing, the outer housing, and the gap allow the electronic circuitry to

maintain operability.

4. (Canceled)

5. (Currently amended) The system recited in claim 1A packaging system for electronic circuitry.

wherein the electronic circuitry is disposed on a substrate, the packaging system comprising in

combination:

an inner housing surrounding the substrate:

an outer housing surrounding the inner housing and the substrate; and

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a gap positioned between the inner and outer housings, the gap filled with insulating media, whereby when the packaging system experiences short term exposure to a high temperature, the combination of the inner housing, the outer housing, and the gap allow the electronic circuitry to maintain operability, and wherein the electronic circuitry comprises sensing electronics.

6. (Original) The system recited in claim 5, wherein the sensing electronics comprises a proximity

sensor.

7. (Original) The system recited in claim 6, wherein the proximity sensor comprises a sensing

element selected from the group consisting of a hall-effect sensing element, a magnetoresistive-sensing

element, a potentiometric-sensing element, and an ultrasound-sensing element.

8-17. (Canceled)

18. (Currently amended) The system recited in claim 17A packaging system for electronic

circuitry, wherein the electronic circuitry is disposed on a substrate, the packaging system comprising in

combination:

an inner housing fabricated from material having low thermal conductivity, the inner

housing defining a first cavity for accepting the substrate, the inner housing including an outer

surface having at least one protrusion extending away from the outer surface;

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an outer housing defining a second cavity for accepting the inner housing and substrate,

the second cavity including an inner surface for contacting the at least one protrusion extending

from the outer surface of the inner housing; and

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a gap positioned between the outer surface of the inner housing and the inner surface of

the outer housing, the gap filled with an insulating media, whereby when the packaging system

experiences short term exposure to a high temperature, the combination of the inner housing, the

outer housing, and the gap allow the electronic circuitry to maintain operability,

wherein the inner housing is substantially cylindrical and has distal and proximate ends, the

proximate end having an opening for the first cavity,

wherein at least one protrusion from the outer surface of the inner housing defines (i) at

least one first pedestal located on the distal end, (ii) a plurality of second pedestals located axially

on the outer surface of the inner housing close to the distal end, and (iii) at least one ring located

radially on the outer surface of the inner housing close to the proximate end,

wherein the inner surface of the second cavity of the outer housing defines a cylindrical

portion having distal and proximate ends, the proximate end having an opening for the second

cavity, wherein when the inner housing is inserted in the outer housing, (i) at least one first

pedestal contacts the distal end of the second cavity, (ii) the plurality of second pedestals contact

the inner surface of the second cavity, and (iii) the at least one ring contacts the inner surface of

the second cavity, and

wherein the gap filled with insulating media defines a region between the outer surface of

the inner housing and the inner surface of the outer housing when the inner housing is inserted in

the outer housing.

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19. (Original) The system recited in claim 18, wherein the substrate has distal and proximate

ends, wherein when the substrate is accepted into the first cavity, the distal end of the substrate is close

to the distal end of the first cavity and the proximate end of the substrate is close to the proximate end of

the first cavity, and wherein the electronic circuitry comprises sensing electronics having a termination

cable for coupling the sensing electronics to an external device, the termination cable protruding from the

proximate end of the first cavity when the substrate is accepted into the first cavity.

20. (Original) The system recited in claim 19, further comprising at least one seal for sealing (i)

the substrate within the first cavity, and (ii) the proximate ends of the inner and outer housings to each

other, and wherein the termination cable passes through the-seal.

21. (Canceled)

22. (Currently amended) The system recited in claim 21, further comprising A packaging system

for electronic circuitry, wherein the electronic circuitry is disposed on a substrate, the packaging system

comprising in combination;

an inner housing fabricated from material having low thermal conductivity, the inner

housing defining a first cavity for accepting the substrate, the inner housing including an outer

surface having at least one protrusion extending away from the outer surface:

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an outer housing defining a second cavity for accepting the inner housing and substrate.

the second cavity including an inner surface for contacting the at least one protrusion extending

from the outer surface of the inner housing:

a gap positioned between the outer surface of the inner housing and the inner surface of

the outer housing, the gap filled with an insulating media;

a second gap positioned between the first cavity and the substrate, the second gap filled

with insulating media, and the second gap providing an additional insulating layer; and

an electromagnetic interference shield positioned between the outer surface of the inner

housing and the substrate, the electromagnetic interference shield surrounding at least a portion

of the substrate, whereby when the packaging system experiences short term exposure to a high

temperature, the combination of the inner housing, the outer housing, the electromagnetic

interference shield, and the first and second gaps allow the electronic circuitry to maintain

operability.

23. (Currently amended) The system-recited in claim 17, further comprising A packaging system

for electronic circuitry, wherein the electronic circuitry is disposed on a substrate, the packaging system

comprising in combination:

an inner housing fabricated from material having low thermal conductivity, the inner

housing defining a first cavity for accepting the substrate, the inner housing including an outer

surface having at least one protrusion extending away from the outer surface;

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an outer housing defining a second cavity for accepting the inner housing and substrate,

the second cavity including an inner surface for contacting the at least one protrusion extending

from the outer surface of the inner housing:

a gap positioned between the outer surface of the inner housing and the inner surface of

the outer housing, the gap filled with an insulating media, whereby when the packaging system

experiences short term exposure to a high temperature, the combination of the inner housing, the

outer housing, and the gap allow the electronic circuitry to maintain operability; and

an electromagnetic interference shield positioned between the outer surface of the inner

housing and the substrate, the electromagnetic interference shield surrounding at least a portion

of the substrate.

24. (Canceled)

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